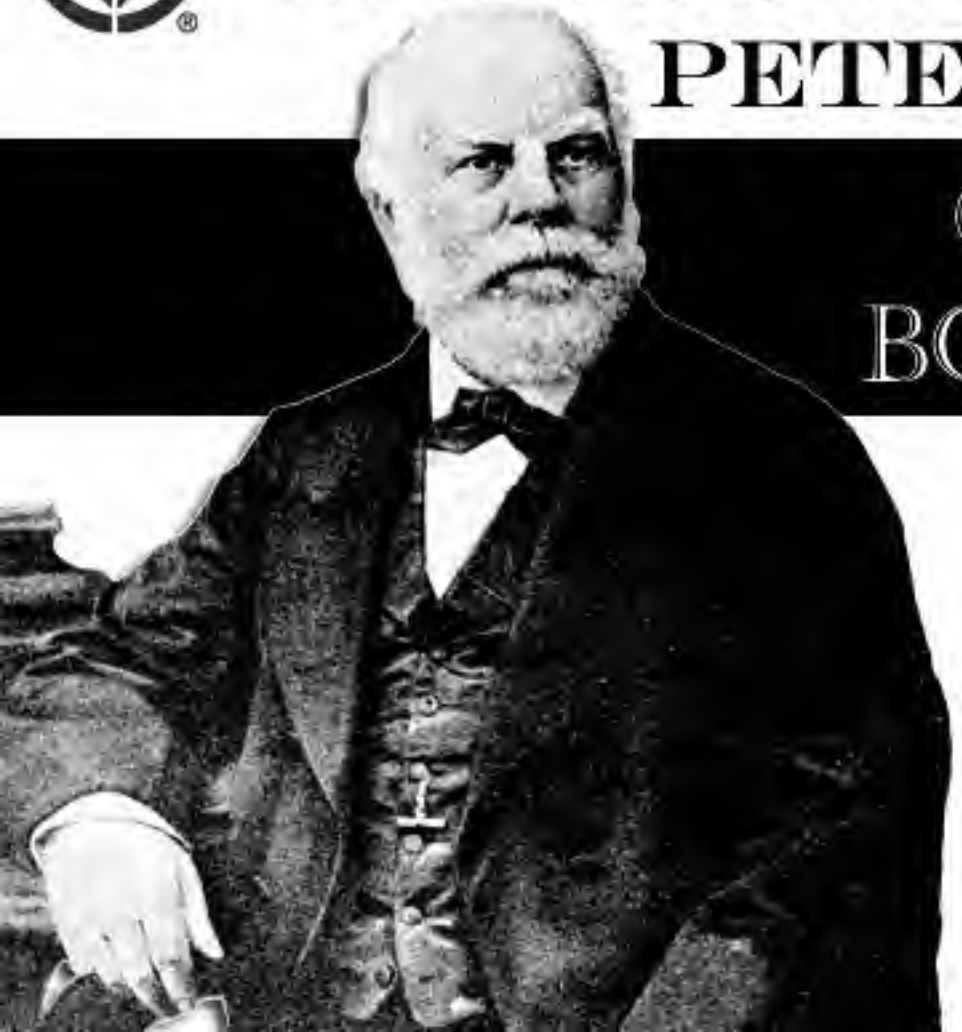
# Missouri Botanical Garden
## Peter H. Raven Library

# George Engelmann Botanical Notebooks



*Pagination Note:*
*Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.*

Hab. reg. Monar.

Mexico

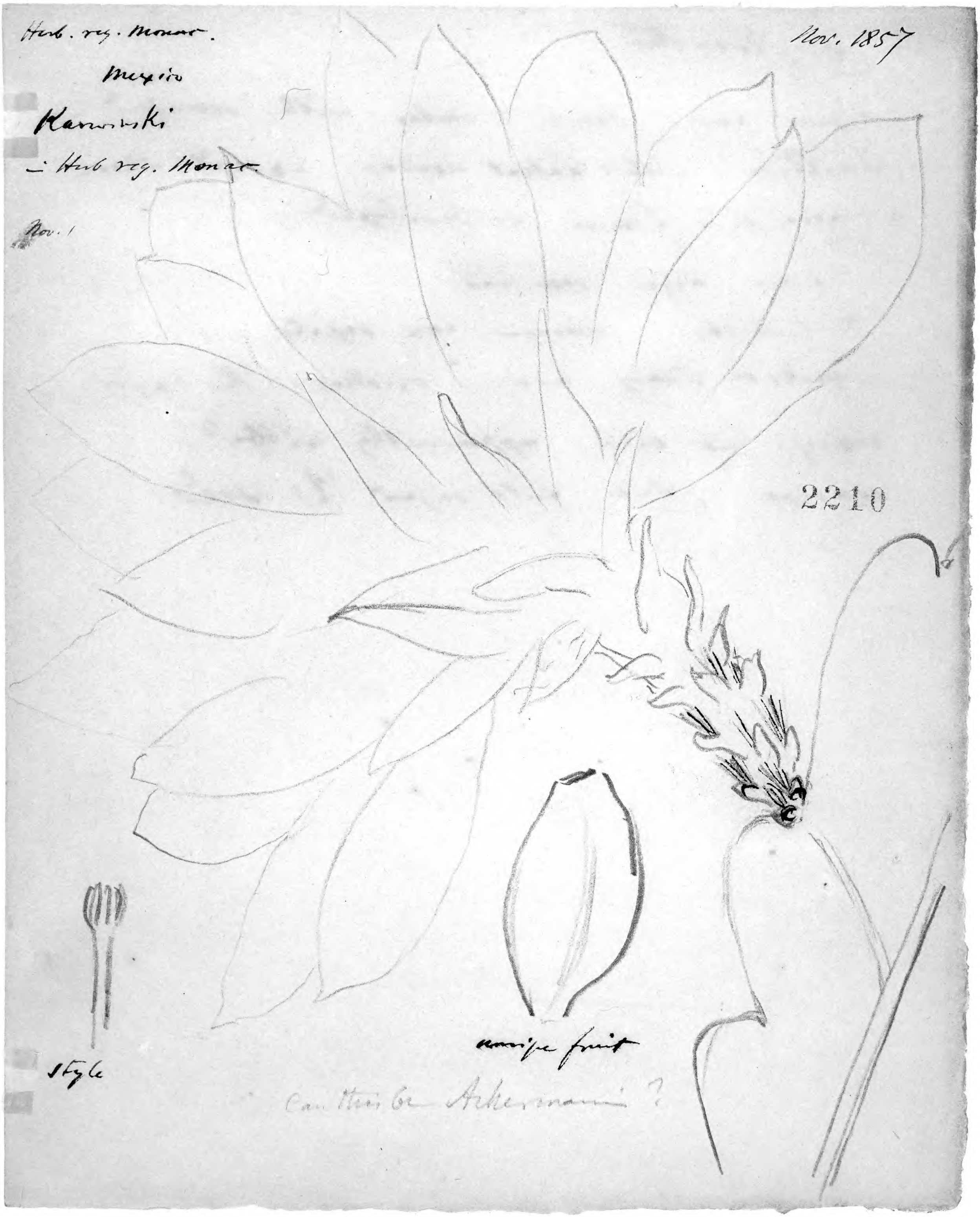
Karwinski

in Hab reg. Monar.

Nov. 1857

Nov. 1

2210




Can this be Ackermann?

Phyllorachis

Canes large, over 2 inches, with rounded
ornations, without lateral nerves, except where
a branch or a flower is developed.

Flower large, rose red
tube short, numerous lax sepals
sepals on stalks bearing bristles in the axills,
unripe fruit oval, apparently ribbed.
unripe (but full size!!) seed

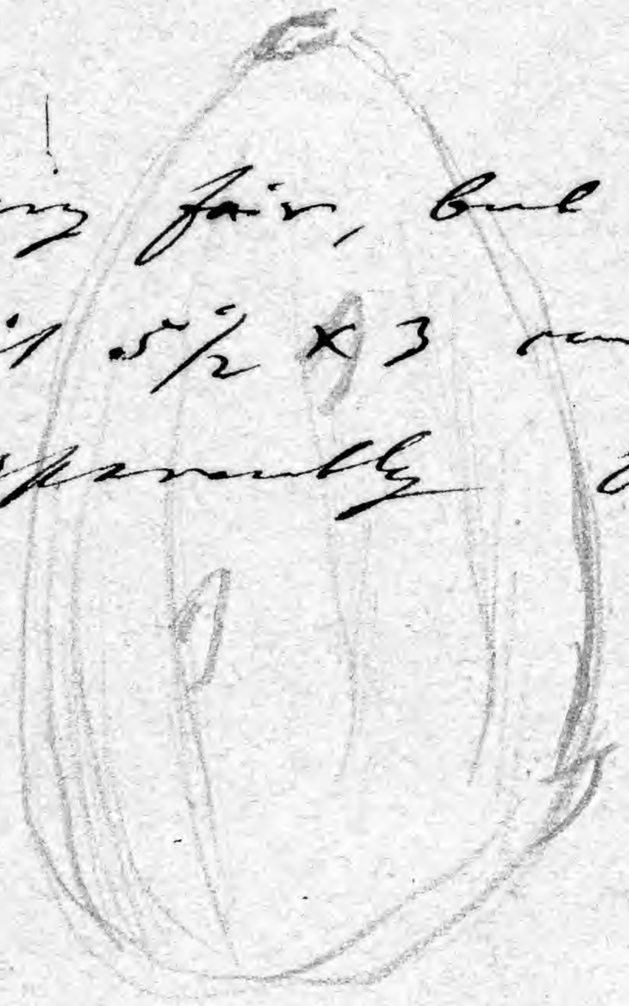
Kew Sept 1869

Phyllocactus Ackermanni (Hort Bot Cactus)

drop rose or ~~purple~~ scarlet flower,
12 or 13 c diameter; tube short —
7 rose coloured stigmata
length of flower not more than 10 or 12 cent.

Bot Register. 1331 vide below

Ph. / Hort Ecklon. t. 64



very fair, but makes the ovary scaly.
fruit 5½ × 3 ribbed, ovate, angled
(apparently 8-angled)

flower represents
Ph. phyllanthus

2211

2092
2598
2692

Ph. angaliger Lem. Bot Mag. 5100 has a long tubular white flower 18 c long 12 c wide —
ovary with perhaps 12 or 14 triangular sepals imbricate — tube with as many;
petals long acuminate, 11 stigmata
from western Mexico

P. Ackermanni Bot Mag. 3598. fl. 17 c wide
~~purple~~ scarlet crimson — same as Dr. Oxypetalus?
not hybrid — seeds from Mexico — petals
acute — Bracteas 2 – 2½" wide
Tube 2" long ovary & tube with fine
membranaceous scales — petals 4" long
Anthers & pollen rose colour, 7 stigmata
rose colour.

Phyllocaulon Ackermanni (Hew)

Cult Hort Berolin.

Hb reg. Berlin 1869

Stigmata 4 (5?) petala recurva

Corona staminum ad faucem

2212

Hort Schaefer, Münster
June 1857

Phyllocactus phyllanthoides.

2213

tubo floris gracili, 1/2 pollicari, (squamis sepaloideis (s. potius) sepalis inferioribus tubi squamiformibus sub 21 (in 8/13 disposit) ovatis s. oblongis acutiusculis adaxillaris lanigeris

sepalis superioribus petaloideis late oblongis

petalis oblongo ovatis, rosei

inferior superiorque tubi parte nudo, medio staminifero et fauce dilatato corona staminea simplex gerente

stylo super stamina longe exserto, stigmatibus 6


a – c ovary  a – b orifiscous cavity

b – c solid part.

c – d naked part of tube constricted at d with thicker walls

d – e staminiferous part, dilated

e – f still more funnelshaped dilated naked part

f upper corona of stamina.

(2)

Phyllocactus phyllanthoides

Andrieux, Mexico 1834 no number

in Hb Mus Paris

Apr 1869

tube rather short, with numerous recurved or spreading sepals which in their axil bear wool and a few spinules –

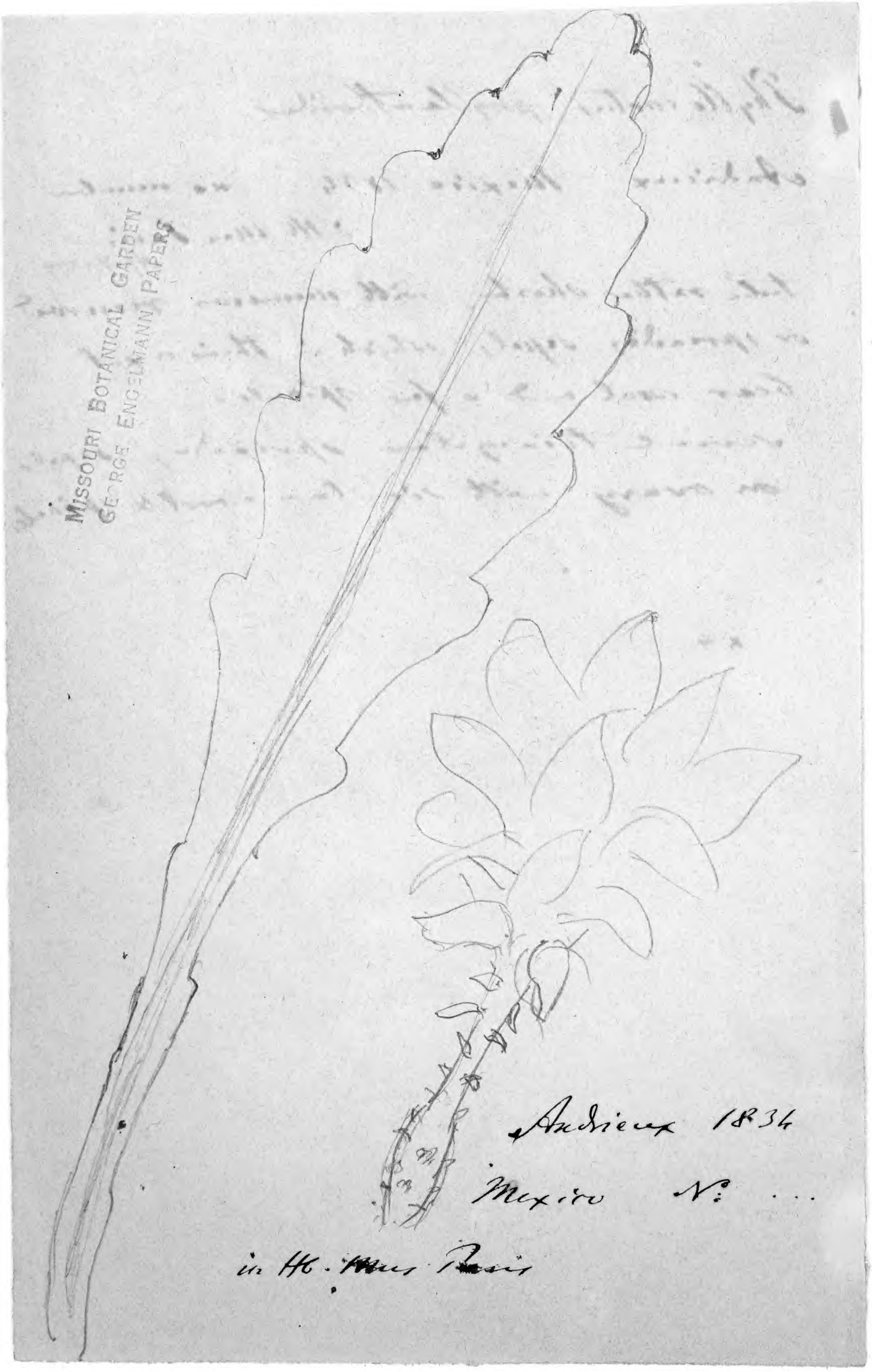
second triangular spreading sepal on ovary with similar wool & spinules

over

x 4

sepals on ovary

2214



Andrieux 1834
Mexico N° ...
in Hb. Mus. Paris

"Phyllanthus latifrons" H B Moore Aug 12 1869
wrongly named, perhaps an hybrid of C. spectabilis
fruit oval, 16-20 areolae in 8 distinct series?
(tuberculated) so that the fruit would appear
8 angled if the tubercles were more united.
areolae spinous.

2215

"Cereus alatus" (phyllanthoides) Berlin Jan 7 1868
fertilized with C. speciosissimus
Coll by Gustav Berger

fruit purplish red – oval, not ribbed, slightly tuberculated
contracted above short neck under the
umbilicus or scar.


areolae 18–20
in 5/13 order
upper ones bearing
spatulate scales

pulp deep
purple

The regular fruit of
C. alatus is elongated,
narrow, with a long neck
and blackish purple.

2216

see figure of fruit of Cer speciosus
Coll by G. Berger

Im vorigen Jahre ist es mir nach wiederholten Versuchen gelungen, durch Einpfropfen der Blüthen von Cact. alatus mit dem Pollen von Cactus speciosus eine Frucht zu bekommen, die nach Pulland verändert in ihrer Form gegen die Frucht von Cactus alatus ist.



Bei der Befruchtung wurden jedesmal sofort nach dem Aufsetzen der Blüthe die Antheren entfernt und nur der Pollen von Cactus (alatus speciosus) aufgetragen, wobei die Pflanze selbst an einem windfreien Orte stand, damit nicht eine Befruchtung durch andere Blüthen stattfinden konnte.

Zunächst erhielt ich auch Früchte von Cactus alatus & speciosus.

Die Frucht von Cact. speciosus ist kugelig, 1 3/4" dick, 2 1/8" lang & grün

Die von Cactus alatus, länglich, 1" dick 1 3/4" lang & zinnroth

Die durch Befruchtung einer Blüthe von Cact. alatus mit dem Pollen von Cact. speciosus

hervorgegangene hat eine Frucht die kugelich, 1 1/6" dick 1 7/8" lang & zinnroth ist, jedoch ist die Farbe nicht so intensiv und schön, wie bei der Frucht von Cact. alatus.

Hunter & Buchanan Botanists to H.M. Stanley

Berlin

March 1878

Gustav Berger.



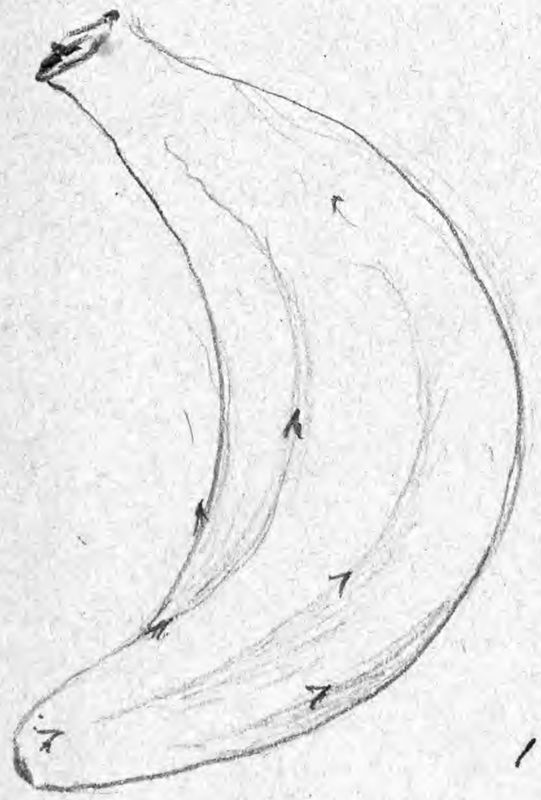
Ewer Christ Freund.

Phyllocactus

Napoli

Villa Floridiana Dec 30. 1862

2218



Irregularly formed fruit
red with yellowish base, soft, pulpy
slightly 5 angled, with about 15 scales
small, triangular

pulp paler, rose red, seeds few (only 17)
apparently few fertilized, and fruit therefore
imperfectly formed